



U.S. DEPARTMENT OF
ENERGY

Paducah Gaseous Diffusion Plant Deactivation Task Order Surveillance and Maintenance and Utility Operations

May 1, 2013



EM Environmental Management

safety ♦ performance ♦ cleanup ♦ closure

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S&M

C.1.4.1 – (Period 3)

- Develop, document, and maintain an S&M Program Plan as appropriate for all facilities within the Contractor's responsibility.
- Tailor S&M during the facility life-cycle in accordance with DOE O 430.1B, Real Property Asset Management, and 10 CFR 851, Worker Safety and Health Program.
- After facilities are turned over by USEC and accepted by DOE, the Contractor shall provide preventive and corrective maintenance using a graded approach on buildings, trailers and other structures assigned to the Contractor.
- Upon expiration of the Remediation Contract, the Contractor shall perform routine S&M of all DOE-owned facilities assigned to the former Remediation Contractor through the end of the Task Order.



S&M (Cont.)

C.1.4.1 – (Period 3)

A graded approach is defined as the process of ensuring that actions used to comply with a requirement are commensurate with:

- 1) the relative importance of safety and safeguards and security,
- 2) the magnitude of any hazard(s) involved,
- 3) the life cycle stage of the facility,
- 4) the programmatic mission of the facility,
- 5) the particular characteristics of the facility,
- 6) the relative importance of the radiological and non-radiological hazards, and
- 7) any other relevant factor.



S&M (Cont.)

C.1.4.1 – (Period 3)

- Minimize and reduce the occupation of facilities to the maximum extent possible.
- Maintain the operability of critical equipment such as the criticality accident alarm systems and public warning systems, monitor radiological conditions, and check and maintain safety-related items.
- Perform minimally required facility inspections including equipment and/or structure.
- Conduct preventive, predictive, and corrective maintenance actions only necessary to support near-term Contractor or site tenants/contractors operations.



S&M (Cont.)

C.1.4.1 – (Period 3)

- Store and maintain approximately 9,700 tons of volumetrically contaminated classified nickel stored on the C-746-H4 pad.
- Develop strategies, including options for the sale of 9,700 tons of classified nickel and other recyclable metals and materials stored at Paducah acting as DOE's agent for identifying and negotiation for reclamation and resale of the nickel, as well as, other valuable assets recovered as part of executions of this work scope.
- Maximize use of recycling excess materials and equipment to reduce project costs in accordance with DOE O 436.1, including leading efforts to gain approval for recycling scrap metals.
- Support DOE's reindustrialization and asset utilization activities at the site.



S&M (Cont.)

C.1.4.1 – (Period 3)

- Remove and disposition permanently unoccupied temporary facilities (e.g. trailers) or small structures to preclude degradation that would result in increased cost to DOE.
- Provide to DOE an Annual Site Facility Occupational Status Report that documents which facilities are routinely occupied and the plans associated with unoccupied facilities .



PCB Activities & DOE Material Storage Areas

C.1.4.1 – (Period 3)

- Perform S&M of the PCB collection and containment trough system including disposition of the collected PCB lube oils to the extent necessary.
- Clean up, sample, and decontaminate PCB spills and leaks, sample and analyze spill sites (estimated to be 40 small spills per year), and properly disposition the PCBs and PCB contaminated material.
- Collect quarterly air quality data throughout the cascade buildings, and submit quarterly and annual reports.
- Evaluate the requirements of the TSCA FFCA as the Contractor implements actions to deactivate and isolate the enrichment facilities and determine how to comply with or modify the agreement in order to minimize cost to DOE.
- Perform necessary activities to down-post any DOE Material Storage Areas – currently 19 in use .



Roof Repairs

C.1.4.1 – (Period 3)

- Maintain the roofs for the process facilities in a structurally sound condition; deferred maintenance of the roofs is prohibited.
- Assess the structural integrity of the roofs prior to facility release and annually thereafter.
- Provide DOE a report of the structural integrity of the roofs within 30 days of completing its assessment, including the costs and schedule for repair of the roofs.
- Repair deficiencies in a compliant, timely manner and must prevent water leakage.



Utility Operations

C.1.4.2 & C.1.4.3 – (Period 3)

Operate and maintain utilities to the extent necessary and ensure utility services are provided to site tenants after utilities are turned over by USEC and accepted by DOE.

- Ensure power is provided to all on-site tenants/contractors – however, the Contractor is not responsible for purchasing power (DOE purchases power).
- Project the power needs for GDP deactivation and S&M for a five-year period and update that projection quarterly and update as requested.
- Operate and maintain the Balance of Plant (BOP) only to the extent necessary to support its and other site tenants/contractor's needs after the associated facilities are turned over by USEC and accepted by DOE.



Utility Operations

C.1.4.2 & C.1.4.3 – (Period 3)

- Provide sewage handling and treatment (e.g. C-615 Sewage Disposal Plant) services the site's contractors/tenants .
- In the event it is not in DOE's best interest to rely on commercially provided water, ensure the operation and maintenance of the permitted C-611 Water Treatment Facilities and provide potable and non-potable (process) water to the site's contractors/tenants.
- Maintain the associated raw water lines, distribution lines to the individual site facilities, water towers, pump, housings, etc.



Analytical Laboratory Operations

C.1.4.4 – (Period 3)

In the event it is not in DOE's best interest to privatize the Analytical Laboratory, the Contractor shall ensure the operations and maintenance of the analytical laboratory only to the extent necessary to support its and other site tenants/contractor's needs after the Analytical Laboratory facilities are turned over by USEC and accepted by DOE.

- Provide analytical services for its work in support of the Paducah Deactivation PWS .
- Provide analytical services to other Paducah site contractors (e.g., Infrastructure, Remediation, and DUF₆ contractors, etc.) .
- Ensure costs are segregated appropriately and shall require the other site tenants/contractors to pay the fully burdened costs for performance of the analytical analysis/services.
- Complete a cost comparison analysis comparing commercial analytical services with self-performance and provide an annual report to DOE.



Analytical Laboratory Operations

C.1.4.4 – (Period 3)

- The laboratory, whether privatized or operated by the Deactivation Contractor, will meet specification requirements in the PWS.
- ✓ Arrange for and coordinate the disposition of laboratory waste resulting from its services.
- ✓ Deliver electronic laboratory reports and deliverables.
- ✓ Arrange for and coordinate the disposition of laboratory waste resulting from its services.



Analytical Laboratory Operations (Cont.)

C.1.4.4 – (Period 3)

- ✓ Ensure that the laboratory still provides the analytical services to the DUF₆ Project.
- ✓ Ensure that DOE's Contractor's analytical services are given priority over commercial services.
- ✓ Participate in Performance Evaluation Studies (PES) for its self-performed laboratory services provided through industry standard vendors and/or control programs.
- ✓ Submit to on-site audits led by DOE-CAP.
- ✓ See other stated requirements in the PWS.



Waste Management Operations

C.1.4.5 – (Period 3)

- Manage and dispose of all waste generated by the Deactivation Task Order in accordance with all applicable laws, regulations, and DOE Orders, including any secondary waste that may be generated
- Perform waste treatment, packaging, transportation, and disposal of waste as necessary
- Submit and maintain a Waste Management Plan
- Manage and/or dispose of waste generated by USEC and accepted by DOE under the terms and conditions of the DOE/USEC Lease. - Cost for storage, characterization, treatment, and disposal of any USEC waste must be tracked under separate accounting codes and be able to be tracked separately from other waste
- Ensure operations of storage areas or facilities and comply with all permits, orders, and regulatory requirements

